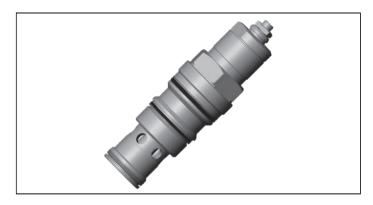


Counterbalance, standard poppet type differential area, counterclockwise adjustment SUN cavity interchange, T-19A

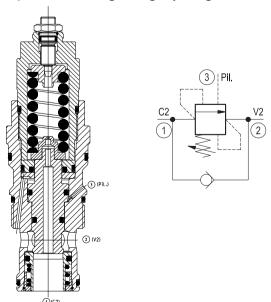
VBSN-25U-RS 04.52.46 - X - 50 - Z

RE 18320-29Edition: 07.2023
Replaces: 01.2020



Description

When pressure at 2 rises above the spring bias pressure, the check seat is pushed away from the piston and flow is allowed from 2 to 1. When load pressure at 1 rises above the pressure setting (turn counterclockwise to increase setting - turn clockwise to decrease setting), the directacting, differential area relief function is activated and flow is relieved from 1 to 2. With pilot pressure at 3, the pressure setting is reduced in proportion to the stated ratio of the valve, until fully open with free-flow from 1 to 2. Any back-pressure at 2 is additive to the pressure setting in all functions. Valve design prevents spring going solid and complete unscrewing during adjusting.

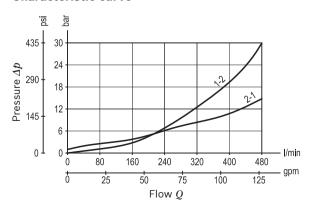


Technical data		
Max. operating pressure	350 bar (5000 psi)	
Max. flow	480 l/min (127 gpm)	
Max. internal leakage ¹⁾	15 drops/min.	
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)	
Installation torque	475 - 500 Nm (352 - 370 ft-lbs)	
Weight	1.7 kg (3.7 lbs)	
MTTFD	150 years see RE 18350-51	
Cavity	SUN T-19A	
Adjustment	according to ISO 4413 with sealed adjustment screw to prevent oil leakage during adjustment	
Salt spray test	500h according to DIN EN ISO 9227:2017-07	
Lines bodies and standard assemblies	Please refer to section "Hydraulic integrated circuit" or consult factory	
Seal kit ²⁾	Code: RG25U9020110100	
	material no: R930006268	
Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /s (cSt)	
Recommended degree of fluid contamination	Nominal value max. 10µm (NAS 8) / ISO 4406 19/17/14	
Installation position	No restrictions	
Other Technical Data	See data sheet 18350-50	

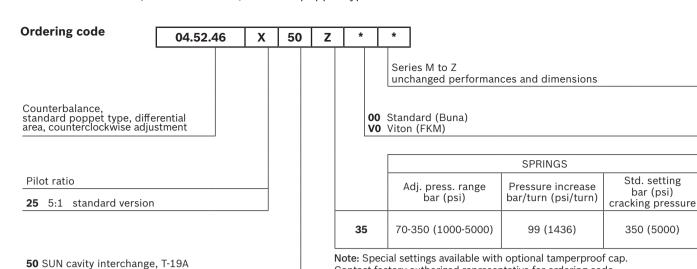
Pressure setting: at least 1.3 times the load induced pressure and maximum 1.5 times catalogue max nominal setting.

- 1) At 70% of pressure setting
- 2) Only external seals for 10 valves

Characteristic curve



bar (psi)



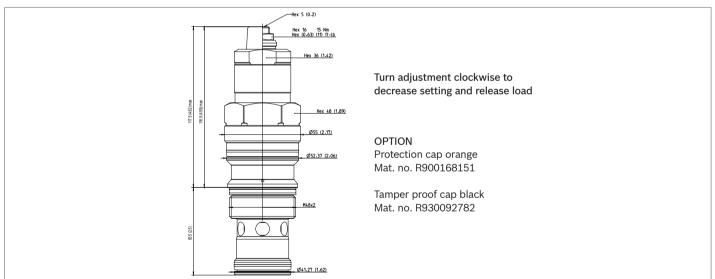
Preferred types

2

Туре	Material number	Туре	Material number
04524625503500M	R930081297		

Contact factory authorized representative for ordering code.

Dimensions



Bosch Rexroth Oil Control S.p.A.

Via Leonardo da Vinci 5 P.O. Box no. 5 41015 Nonantola - Modena, Italy Tel. +39 059 887 611 Fax +39 059 547 848 compact-hydraulics-cv@boschrexroth.com www.boschrexroth.com/compacthydraulics

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